

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of
Invention

ALTERNATOR CONTROL CIRCUIT AND RELATED
TECHNIQUES

Application Number: 10/086069



Confirmation Number: 6521

First Named Applicant: Thomas Keim

Attorney Docket Number: MIT-075AUS

Search string: (4825739 or 5170310 or 5248935 or 5256959
or 5663631 or 5801516 or 5966001 or 6140803
or 6317346).pn.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
MIN	1	4825739	1989-04-25	Hamelin et al			
	2	5170310	1992-12-08	Studtmann et al			
	3	5248935	1993-09-21	Fukuda			
	4	5256959	1993-10-26	Nagano et al			
	5	5663631	1997-09-02	Kajiura et al			
	6	5801516	1998-09-01	Rice et al			
	7	5966001	1999-10-12	Maehara et al			
	8	6140803	2000-10-31	Hurley et al			
MR	9	6317346	2001-11-13	Early			

Signature

Examiner Name	Date
Matthew Nguyen	10/5/04

Form PTO-1449
(Rev. 8-83)

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AITY. DOCKET NO.
MIT-075AUS

APPLICATION NO.
10/086,819

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT
Thomas A. Keim et al.

FILING DATE
October 22, 2001

GROUP
2838

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE*
MN	5 9 4 6 2 0 3	8/31/99	Jiang et al.			
	6 0 3 1 7 3 9	2/29/00	He et al.			
	4 5 0 7 7 2 4	3/26/85	Glennon			
MN	4 7 0 1 6 9 2	10/20/87	Takeuchi et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
MN	EP 0 693 816 A1	1/24/96	EP				

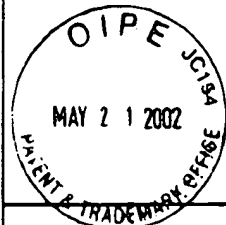
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

International Search Report for PCT/US01/46147

Examiner

Date Considered: **10/5/04**

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and considered. Include copy of this form with next communication to applicant.

Form PTO-1449
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PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
MIT-075AUSAPPL. NO.
~~10/080,819~~

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE*
MN	5 1 5 1 6 4 1 ✓	9/29/1992	Shamoto			
	5 1 7 7 6 7 7 ✓	1/5/1993	Nakata et al.			
	5 4 9 5 1 6 2 ✓	2/27/1996	Rozman et al.			
	5 6 9 6 4 3 0 ✓	12/9/1997	Erdman et al.			
	5 7 0 5 9 1 7 ✓	1/6/1998	Scott et al.			
	5 7 2 6 5 5 7 ✓	3/10/1998	Umeda et al.			
	5 7 3 1 6 9 3 ✓	3/24/1998	Furmanczyk			
	5 7 9 3 6 2 5 ✓	08/11/1998	Balogh			
	5 9 4 2 8 1 8 ✓	8/24/1999	Sato et al.			
MN	5 9 4 6 2 0 2 ✓	8/31/1999	Balogh			

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

MN	Esam Hamid Ismail et al. "Single-Switch 3Ø PWM Low Harmonic Rectifiers", IEEE Transactions On Power Electronics. Vol 11 No. 2, March 1996, pp.338-346. ✓
	Vahe Caliskan et al. "Analysis of Three-Phase Rectifiers with Constant-Voltage Loads", this paper appears in Power Electronics Specialists Conference, PESC 99. 30 th Annual IEEE on pages 715-720, vol. 2. 27 June-1 July 1999.. ✓
	G. Venkataramanan et al. "Variable Speed Operation of Permanent Magnet Alternator Wind Turbines Using a Single Switch Power Converter", Journal of Solar Energy-Transactions of the Asme Vol. 118 No. 4, November 1996. pp. 235-238. ✓
MN	A.R. Prasad et al. "An Active Power Factor Correction Technique for Three-Phase Diode Rectifiers" IEEE Transaction Power Electronics, Vol 6 No. 1 January 1991. pp. 83-92. ✓
Examiner Matthew Nguyen	Date Considered: 10/5/04
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* Note that all of references above have been Considered
in PTO-1449 received 10/22/01

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* Note that all of references above have been considered in PTO-1449 received 10/29/01

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APPLICANT
Thomas A. Keim et al.FILING DATE
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Not Yet Assigned

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE*
MN	5 4 9 5 1 6 2	2/27/96	Rozman et al.			
	5 7 2 6 5 5 7	3/10/98	Umeda et al.			
	5 9 4 2 8 1 8	8/24/99	Satoh et al.			
	5 1 5 1 6 4 1	9/29/92	Shamoto			
	5 6 9 6 4 3 0	12/9/97	Erdman et al.			
	5 7 9 3 6 2 5	8/11/98	Balogh			
	5 7 0 5 9 1 7	1/6/98	Scott et al.			
MN	5 9 4 6 2 0 2	8/31/99	Balogh			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
MN	WO 98/28832	7/2/98	PCT				
	EP 0 778 662 A1	6/11/97	EP				
	EP 0 493 848 A2	7/8/92	EP				
	DE 195 19 298 A1	11/28/96	Germany				
MN	EP 0 849 112 A1	6/24/98	EP				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

MN	Search Report for PCT/US01/01669
MN	Esam Hamid Ismail et al. "Single-Switch 3 ϕ PWM Low Harmonic Rectifiers", IEEE Transactions On Power Electronics. Vol 11 No.2, March 1996, pp.338-346.
MN	Vahe Caliskan et al. "Analysis of Three-Phase Rectifiers with Constant-Voltage Loads" 6 pages, July 1999
MN	G. Venkataramanan et al. "Variable Speed Operation of Permanent Magnet Alternator Wind Turbines Using a Single Switch Power Converter", Journal of Solar Energy-Transactions of the Asme Vol.118 No.4, November 1996, pp. 235-238.
MN	A.R. Prasad et al. "An Active Power Factor Correction Technique for Three-Phase Diode Rectifiers" IEEE Transaction Power Electronics, Vol. 6 No. 1 January 1991, pp.83-92.

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Date Considered:

2/4/04

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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
MIT-075AUS

APPLICATION NO.

~~Not Yet Assigned~~

10/086,060

INFORMATION DISCLOSURE CITATION

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U.S. PATENT DOCUMENTS

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